

1638  
#13  
BP  
12-27-01  
OIPE

RAW SEQUENCE LISTING

DATE: 08/29/2001

PATENT APPLICATION: US/09/529,239A

TIME: 15:24:14

Input Set : A:\09529239SubSeqList.txt

Output Set: N:\CRF3\08292001\I529239A.raw

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1 <110> APPLICANT: Doutriaux, Marie-Pascale  
2 Betzner, Andreas  
3 Freyssinet, Georges  
4 Perez, Pascal  
6 <120> TITLE OF INVENTION: METHOD FOR OBTAINING PLANT VARIETIES  
9 <130> FILE REFERENCE: A33153-PCT-USA 072667.0128  
11 <140> CURRENT APPLICATION NUMBER: US 09/529,239A  
12 <141> CURRENT FILING DATE: 2000-10-27  
14 <150> PRIOR APPLICATION NUMBER: PCT/EP98/06977  
15 <151> PRIOR FILING DATE: 1998-10-09  
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25 <221> NAME/KEY: modified\_base  
26 <222> LOCATION: 11  
27 <223> OTHER INFORMATION: I  
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36 <222> LOCATION: 17  
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39 <220> FEATURE:  
40 <223> OTHER INFORMATION: Degenerate oligonucleotides UPMU used to isolate AtMSH3 and

RECEIVED  
DEC 21 2001  
TECH CENTER 1600/2900

AtMSH6.

42 <300> PUBLICATION INFORMATION:  
43 <301> AUTHORS: Reenan and Kolodner  
44 <302> TITLE: Genetics  
45 <303> JOURNAL: 132  
46 <306> PAGES: 963-973  
47 <307> DATE: 1992  
49 <400> SEQUENCE: 1

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54 <210> SEQ ID NO: 2  
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57 <213> ORGANISM: Artificial sequence  
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60 <221> NAME/KEY: modified\_base  
61 <222> LOCATION: 15  
62 <223> OTHER INFORMATION: I  
64 <220> FEATURE:  
65 <221> NAME/KEY: modified\_base

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66 &lt;222&gt; LOCATION: 18

67 &lt;223&gt; OTHER INFORMATION: (1)

69 &lt;220&gt; FEATURE:

70 &lt;223&gt; OTHER INFORMATION: Degenerate oligonucleotides DOMU used to isolate AtMSH3 and ✓

AtMSH6.

72 &lt;300&gt; PUBLICATION INFORMATION:

73 &lt;301&gt; AUTHORS: Reenan and Kolodner

74 &lt;302&gt; TITLE: Genetics

75 &lt;303&gt; JOURNAL: 132

76 &lt;306&gt; PAGES: 963-973

77 &lt;307&gt; DATE: 1992

79 &lt;400&gt; SEQUENCE: 2 ✓

W--&gt; 81 ctggatccrt artgngtnrc raa 23

84 &lt;210&gt; SEQ ID NO: 3

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87 &lt;213&gt; ORGANISM: Artificial sequence

89 &lt;220&gt; FEATURE:

90 &lt;223&gt; OTHER INFORMATION: MSH3 specific primer 636 for PCR using cDNA of Arabidopsis ✓

thaliana

91 ecotype Columbia

93 &lt;400&gt; SEQUENCE: 3

95 tgctagtgcc tcttgcaagc tcat 24

98 &lt;210&gt; SEQ ID NO: 4

99 &lt;211&gt; LENGTH: 27

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101 &lt;213&gt; ORGANISM: Artificial sequence

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104 &lt;223&gt; OTHER INFORMATION: Primer AP1 for PCR using cDNA of Arabidopsis thaliana ✓

ecotype Columbia

105 containing adapter sequences ligated to both its ends

107 &lt;400&gt; SEQUENCE: 4

109 ccataccta acgactcact atagggc 27

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114 &lt;212&gt; TYPE: DNA

115 &lt;213&gt; ORGANISM: Artificial sequence

117 &lt;220&gt; FEATURE:

118 &lt;223&gt; OTHER INFORMATION: Primer AP2 for PCR using cDNA of Arabidopsis thaliana ✓

ecotype Columbia

119 containing adapter sequences ligated to both its ends

121 &lt;400&gt; SEQUENCE: 5

123 actcactata gggctcgagc ggc 23

126 &lt;210&gt; SEQ ID NO: 6

127 &lt;211&gt; LENGTH: 30

128 &lt;212&gt; TYPE: DNA

129 &lt;213&gt; ORGANISM: Artificial sequence

131 &lt;220&gt; FEATURE:

132 &lt;223&gt; OTHER INFORMATION: MSH3 specific primer S525 for PCR using cDNA of Arabidopsis ✓

thaliana

133 ecotype Columbia

135 &lt;400&gt; SEQUENCE: 6

137 aggttctgat tatgtgtgac gctttactta 30

140 <210> SEQ ID NO: 7

## RAW SEQUENCE LISTING

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147     ecotype Columbia
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156 <212> TYPE: DNA
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159 <220> FEATURE:
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thaliana
161     ecotype Columbia
163 <400> SEQUENCE: 8
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thaliana
175     ecotype Columbia
177 <400> SEQUENCE: 9
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185 <213> ORGANISM: Artificial sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: MSH3 specific primer 1S5 for PCR using cDNA of Arabidopsis ✓
thaliana
189     ecotype Columbia
191 <400> SEQUENCE: 10
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197 <211> LENGTH: 27
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial sequence
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thaliana
203     ecotype Columbia
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210 <210> SEQ ID NO: 12
211 <211> LENGTH: 1250
212 <212> TYPE: DNA
213 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia

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214 <223> OTHER INFORMATION: Clone 52

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220 gccactgtat ccttctctcc ttccaagcgt aagcttctct ccgaccacct cgccgccgcg 180
221 tcacccaaaa agcctaaact ttctcctcac actcaaaacc cagtaccoga tcccaattta 240
222 caaccaagat ttctccagag atttctggaa cctcgcgcgg aggaatatgt tcccgaaacg 300
223 tcatcatcga ggaatacac accattggaa cagcaagtgg tggagctaaa gagcaagtac 360
224 ccagatgtgg tttgatggg ggaagtggg tacaggtaca gattcttcgg agaagacgcg 420
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230 tgtgttggg atgagagagt taagtcggag acattaggct gtggtattga aatgagtttt 780
231 gatgttagag tcggtgtgt tggcgttgaa atttcgacag gtgaagtgtt ttatgaagag 840
232 ttcaatgata atttcatgag aagtggatta gaggtgtga ttttgagctt gtcaccagct 900
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235 gcagtagatg aggtattttc attatgtgaa aaaatcagcg caggtaaactt agaagatgat 1080
236 aaagaaatga agctggaggg tctgaaaaa ggaatgtctt gcttgacagt tcatacaatt 1140
237 atgaacatgc cacatctgac tgttcaagcc ctgcgcctaa cgttttgcca tctcaaacag 1200
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246 &lt;220&gt; FEATURE:

247 &lt;223&gt; OTHER INFORMATION: MSH3 specific primer 2S5 for PCR using cDNA of Arabidopsis

thaliana

248 ecotype Columbia ✓

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260 &lt;220&gt; FEATURE:

261 &lt;223&gt; OTHER INFORMATION: MSH3 specific primer S52 for PCR using cDNA of Arabidopsis

thaliana

262 ecotype Columbia ✓

264 &lt;400&gt; SEQUENCE: 14

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272 &lt;213&gt; ORGANISM: Arabidopsis thaliana ecotype Columbia

273 &lt;223&gt; OTHER INFORMATION: Clone 13

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278 tgaaggatc ctttaccag ggcctcatt tcgctctttg tcaagtaaca cagagatgac 120

279 tctctcagcc aatactctgc aacagttgga ggttgtgaaa aataattcag atggatcgga 180

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284 agtcttgaca gctatgtcta gatcatctga tattcaacgt ggaataacaa gaatctttca 480
285 tcggactgct aaagccacag agttcattgc agttatggaa gctattttac ttgcggggaa 540
286 gcaaattcag cggttggca taaagcaaga ctctgaaatg aggagtatgc aatctgcaac 600
287 tgtgcatct actcttttga gaaaattgat ttctgttatt tcatcccctg ttgtggttga 660
288 caatgccgga aaacttctct ctgccctaaa taaggaagcg gctgttcgag gtgacttgct 720
289 cgacatacta atcaattcca gcgaccaatt tctgagctt gctgaagctc gccaaagcag 780
290 tttagtcatc agggaaaagc tggattcctc gatagcttca ttctgcaaga agctcgctat 840
291 tcgaaatttg gaatttcttc aagtgtcggg gatcacacat ttgatagagc tgcccgttga 900
292 ttccaaggct cctatgaatt ggggtgaaagt aaatagcacc aagaagacta ttcgatatca 960
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295 taaggctgcc gttcaagctc ttgctgcact ggactgtttg cactcccttt caactctatc 1140
296 tagaaacaag aactatgtcc gtcccagatt tgtggatgac tgtgaaccag ttgagataaa 1200
297 catacagtct ggtcgtcatc ctgtactgga gactatatta caagataact tcgtcccaaa 1260
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308 catttcaatg gctgcaaaat tggaagctga ggtacgtgca agagagagaa atacacgcat 1920
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310 tgacttggtt gcagacctga aatttgctct ctctgaagag gacccttggg aagcattcga 2040
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312 ttgaccggg 2110

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321 <223> OTHER INFORMATION: MSH3 specific primer S51 for PCR using cDNA of Arabidopsis  
thaliana

322 ecotype Columbia ✓

324 &lt;400&gt; SEQUENCE: 16

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332 &lt;213&gt; ORGANISM: Artificial sequence

334 &lt;220&gt; FEATURE:

335 <223> OTHER INFORMATION: MSH3 specific primer S525 for PCR using cDNA of Arabidopsis  
thaliana

336 ecotype Columbia ✓

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/529,239A

DATE: 08/29/2001

TIME: 15:24:15

Input Set : A:\09529239SubSeqList.txt

Output Set: N:\CRF3\08292001\I529239A.raw

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